

In the Abstract

Please make the corrections to the abstract as noted below:

An air-filled pipette for accurately metering small and large volumes of fluid samples is provided. The pipette has dual resolution capability such that the pipette can accurately aspirate a wide range of sample volumes and deliver them contact-free (touchless). The pipette may include an extension mandrel ~~within the pipette tip, which helps to reduce the internal volume that reduces air space in a disposable tip~~ within the pipette. The dual resolution capability and/or the extension mandrel also help to minimize errors associated with the compressibility of air the internal volume of air within the pipette so that measurement error associated with the compression or expansion of air within the pipette is minimized. Multiple pipettes may also be arranged to form a pipetting module for the metering of multiple sample volumes simultaneously and automatically. The pipette includes a channel block having at least one cylindrical passage, that slides up and down over a rod, sized, shaped, and aligned to pass into the cylindrical passage, and a cylinder, having with an axially extending passage therethrough, that is sized, shaped and aligned to pass fit into the cylindrical passage in a dynamic sealing relationship. A method for mixing multiple fluid samples within a pipette tip is also provided.